

	Document ID	Current OR	Current XRef	2	3	4	5
1	US 6450792 B1	418/170	92/129; 92/72	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	US 4905637 A	123/51B	123/196R; 123/41.74; 123/56.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	US 6467213 B1	42/76.02	42/78; 89/16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	US 5160802 A	89/16	89/14.7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	US 4911060 A	89/14.05	42/76.02; 89/16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	US 4556240 A	285/55	138/109; 138/143; 138/98; 138/DIG.6; 228/178; 228/187; 228/189; 228/262.3; 285/189; 285/288.1; 285/334; 285/416	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	US 4366971 A	285/55	138/109; 138/143; 138/96T; 138/DIG.6; 285/148.11; 285/333; 285/417	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	US 4273159 A	138/109	138/142; 138/155; 175/325.1; 428/685; 428/932	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	Document ID	Current OR	Current XRef	2	3	4	5
9	US 200201602 35 A1	428/698	428/336; 428/697; 428/699; 428/701; 428/702	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	US 6294029 B1	148/211	148/217; 148/226	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11	US 4495003 A	148/212	138/143; 148/228; 148/318; 148/909	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12	US 4458724 A	138/177	138/145; 138/172	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13	JP 200231003 4 A			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	JP 62061722 A			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	JP 56111588 A		228/119	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	US 4571969 A			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	US 4417459 A			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	JP 09235651 A			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

	Document ID	Current OR	Current XRef	2	3	4	5
19	JP 58039775 A			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
20	DE 3221312 A			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21	US 6325108 B1	138/153	138/172; 138/DIG.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	US 4511612 A	428/34.5	123/270; 123/285; 138/145; 138/146; 138/149; 138/174; 29/527.3; 419/8; 428/34.6; 428/367; 428/450; 428/469; 428/697; 428/698; 428/701	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23	US 5660211 A	138/143	138/149; 138/DIG.6; 285/54	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
24	US 4601087 A	29/890.12 9	137/375; 138/143; 228/186; 228/193; 228/235.1; 251/366; 285/55; 29/282; 29/428; 29/890.13	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

	Document ID	Current OR	Current XRef	2	3	4	5
25	US 4389439 A	138/146	138/145; 138/DIG.6; 148/278; 427/237; 427/239; 427/249.17; 428/34.1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
26	US 6286556 B1	138/109	138/112; 138/114; 285/145.4; 285/302; 285/354	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
27	US 6092556 A	138/142	138/137	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
28	US 6085800 A	138/142	138/143; 138/171	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
29	US 6070618 A	138/143	138/177	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
30	US 5887628 A	138/142	138/143; 138/171; 138/177	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31	US 5402829 A	138/109	138/177; 138/96R; 138/DIG.6; 285/332.2; 285/422	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
32	US 5265793 A	228/127	138/143; 138/145; 228/131; 427/239	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
33	US 5109888 A	138/109	138/177; 138/178; 138/DIG.11; 285/332	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
34	US 4784311 A	228/131	138/142; 228/155; 228/173.2; 228/262.41; 29/516; 29/520	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	Document ID	Current OR	Current XRef	2	3	4	5
35	US 4346739 A	138/143	138/177; 29/523	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
36	US 4261769 A	148/319	138/143; 138/177; 148/909	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
37	US 4134430 A	138/109	138/177; 138/178; 138/DIG.11; 285/332	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
38	US 5447179 A	138/143	138/140; 138/141; 138/172; 228/127	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
39	US 6016843 A	138/109	138/177; 138/178; 285/368; 285/412	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	US 6009907 A	138/110	138/109; 138/38; 285/41	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41	US 5918644 A	138/151	138/146; 138/149; 138/155; 138/158; 52/309.14; 52/309.9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42	US 5687773 A	138/96R	138/109; 138/110; 138/89.4; 454/4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
43	US 5810054 A	138/109	138/177; 72/370.07; 72/370.1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
44	US 4310184 A	285/238	138/109; 285/373; 285/382; 285/423; 29/525	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

L Number	Hits	Search Text	DB	Time stamp
1	948	((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.	USPAT; US-PGPUB	2003/09/10 11:28
2	1076	(138/109).CCLS.	USPAT; US-PGPUB	2003/09/10 11:28
3	46	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) and ((138/109).CCLS.)	USPAT; US-PGPUB	2003/09/10 11:28
4	51	"autofrettage"	USPAT; US-PGPUB	2003/09/10 11:28
5	5475	prestressing	USPAT; US-PGPUB	2003/09/10 11:28
6	880010	drawing	USPAT; US-PGPUB	2003/09/10 11:29
7	543666	steel	USPAT; US-PGPUB	2003/09/10 11:29
8	5212	nitriding or carbonitriding	USPAT; US-PGPUB	2003/09/10 12:06
9	41953	diesel	USPAT; US-PGPUB	2003/09/10 11:29
10	1978	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.)	USPAT; US-PGPUB	2003/09/10 11:29
11	1	"autofrettage" and (((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.))	USPAT; US-PGPUB	2003/09/10 11:30
12	139	diesel and (nitriding or carbonitriding)	USPAT; US-PGPUB	2003/09/10 11:30
13	1	(diesel and (nitriding or carbonitriding)) and "autofrettage"	USPAT; US-PGPUB	2003/09/10 11:30
14	1	(diesel and (nitriding or carbonitriding)) and prestressing	USPAT; US-PGPUB	2003/09/10 11:30
15	15705	prestressing or prestressed or prestress	USPAT; US-PGPUB	2003/09/10 11:30
17	2	((diesel and (nitriding or carbonitriding)) and (prestressing or prestressed or prestress)) and steel	USPAT; US-PGPUB	2003/09/10 11:31
18	2	((diesel and (nitriding or carbonitriding)) and (prestressing or prestressed or prestress)) and drawing	USPAT; US-PGPUB	2003/09/10 11:31
16	3	diesel and (nitriding or carbonitriding)) and (prestressing or prestressed or prestress)	USPAT; US-PGPUB	2003/09/10 11:33
19	1	"autofrettage" and (nitriding or carbonitriding)	USPAT; US-PGPUB	2003/09/10 11:33
20	1	"autofrettage" and diesel	USPAT; US-PGPUB	2003/09/10 11:33
21	17	"autofrettage" and drawing	USPAT; US-PGPUB	2003/09/10 11:33
22	13	("autofrettage" and drawing) and steel	USPAT; US-PGPUB	2003/09/10 11:45
23	0	(((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) and ((138/109).CCLS.) and (nitriding or carbonitriding)	USPAT; US-PGPUB	2003/09/10 11:45
24	0	(((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) and ((138/109).CCLS.) and diesel	USPAT; US-PGPUB	2003/09/10 11:45
25	28	(((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) and ((138/109).CCLS.) and steel	USPAT; US-PGPUB	2003/09/10 11:46
26	139	(nitriding or carbonitriding) and diesel	USPAT; US-PGPUB	2003/09/10 12:05
28	1	((((nitriding or carbonitriding) and diesel) and steel) and prestressing	USPAT; US-PGPUB	2003/09/10 11:47
27	99	((nitriding or carbonitriding) and diesel) and steel	USPAT; US-PGPUB	2003/09/10 12:02
29	40	((nitriding or carbonitriding) and diesel) not (((nitriding or carbonitriding) and diesel) and steel)	USPAT; US-PGPUB	2003/09/10 12:04
30	0	(nitriding or carbonitriding) and diesel	EPO; JPO; DERWENT	2003/09/10 12:06
31	10142	nitriding or carbonitriding	EPO; JPO; DERWENT	2003/09/10 12:06

32	3846	(nitriding or carbonitriding) and steel	EPO; JPO; DERWENT	2003/09/10 12:06
33	0	((nitriding or carbonitriding) and steel) and diesel	EPO; JPO; DERWENT	2003/09/10 12:07
35	0	((nitriding or carbonitriding) and steel) and prestressing	EPO; JPO; DERWENT	2003/09/10 12:07
36	0	((nitriding or carbonitriding) and steel) and prestressing	EPO; JPO; DERWENT	2003/09/10 12:07
37	0	((nitriding or carbonitriding) and steel) and prestressed	EPO; JPO; DERWENT	2003/09/10 12:07
38	0	((nitriding or carbonitriding) and steel) and prestress	EPO; JPO; DERWENT	2003/09/10 12:07
39	0	((nitriding or carbonitriding) and steel) and "autofrettage"	EPO; JPO; DERWENT	2003/09/10 12:07
41	0	((nitriding or carbonitriding) and steel) and "autofrettage"	EPO; JPO; DERWENT	2003/09/10 12:08
40	17	"autofrettage"	EPO; JPO; DERWENT	2003/09/10 12:08
34	22	((nitriding or carbonitriding) and steel) and diesel	EPO; JPO; DERWENT	2003/09/10 12:17
42	0	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and "autofrettage"	EPO; JPO; DERWENT	2003/09/10 12:17
43	0	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and prestressing	EPO; JPO; DERWENT	2003/09/10 12:18
44	1	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and "autofrettage"	USPAT; US-PGPUB	2003/09/10 12:19
45	16	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and prestressing	USPAT; US-PGPUB	2003/09/10 12:19
48	5	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and (nitriding or carbonitriding)	USPAT; US-PGPUB	2003/09/10 12:21
49	29	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and diesel	USPAT; US-PGPUB	2003/09/10 12:22
46	400	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and drawing	USPAT; US-PGPUB	2003/09/10 12:25
47	658	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and steel	USPAT; US-PGPUB	2003/09/10 12:33
50	835	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and "autofrettage") or (((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and prestressing) or (((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and drawing) or (((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and steel) or (((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and (nitriding or carbonitriding)) or (((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and diesel)	USPAT; US-PGPUB	2003/09/10 12:34
51	1143	((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) not (((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and "autofrettage") or (((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and prestressing) or (((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and drawing) or (((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and steel) or (((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and (nitriding or carbonitriding)) or (((((138/143) or (138/146) or (138/142) or (138/dig.5)).CCLS.) or ((138/109).CCLS.) and diesel)))	USPAT; US-PGPUB	2003/09/10 12:34